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A.D. 1860, 17th JULY. N° 1732.

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S P E C I F I C A T I O N

OF

ABRAHAM ESKELL.

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BEDS OR BASES FOR ARTIFICIAL TEETH.

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*Hydra Ltd.*

1861.







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A.D. 1860, 17th JULY. N° 1732.

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**Beds or Bases for Artificial Teeth.**

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**LETTERS PATENT** to Abraham Eskell, of 8, Grosvenor Street, Grosvenor Square, for the Invention of “**IMPROVEMENTS IN BEDS OR BASES FOR ARTIFICIAL TEETH.**”

Sealed the 28th December 1860, and dated the 17th July 1860.

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**PROVISIONAL SPECIFICATION** left by the said Abraham Eskell at the Office of the Commissioners of Patents, with his Petition, on the 17th July 1860.

I, ABRAHAM ESKELL, of 8, Grosvenor Street, Grosvenor Square, do hereby  
5 declare the nature of the Invention for “**IMPROVEMENTS IN BEDS OR BASES FOR ARTIFICIAL TEETH,**” to be as follows:—

This Invention has for its object improvements in beds or bases for artificial teeth. For this purpose the upper portion of the bed to which the teeth are attached is formed of metal, as has heretofore been done, but in place of the  
10 under side of the metal bed being shaped so as exactly to fit the gums, the under side of the bed is made hollow to receive a filling piece of gutta percha, vulcanite, amber, tortoiseshell, ivory, or any substance capable of being readily moulded to the form of the gums. The under side of this filling piece is moulded in any suitable manner to the shape of the gums, and the  
15 filling piece is fixed by small pins or otherwise in the hollow of the metal bed, so that it can readily be removed therefrom. By this means, when any change takes place in the form of the mouth, the first filling piece may be removed, and a fresh one, formed to the shape of the gums, inserted in the hollow of the bed, so that a fresh set of teeth would not be required.

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*Eskell's Improvements in Beds or Bases for Artificial Teeth.*

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**SPECIFICATION** in pursuance of the conditions of the Letters Patent, filed by the said Abraham Eskell in the Great Seal Patent Office on the 17th January 1861.

**TO ALL TO WHOM THESE PRESENTS SHALL COME, I, ABRAHAM**  
**ESKELL, of 8, Grosvenor Street, Grosvenor Square, send greeting.** 5

**WHEREAS** Her most Excellent Majesty Queen Victoria, by Her Letters Patent, bearing date the Seventeenth day of July in the year of our Lord One thousand eight hundred and sixty, in the twenty-fourth year of Her reign, did, for Herself, Her heirs and successors, give and grant unto me, the said Abraham Eskell, Her special licence that I, the said Abraham Eskell, my 10 executors, administrators, and assigns, or such others as I, the said Abraham Eskell, my executors, administrators, and assigns, should at any time agree with, and no others, from time to time and at all times thereafter during the term therein expressed, should and lawfully might make, use, exercise, and vend, within the United Kingdom of Great Britain and Ireland, the 15 Channel Islands, and Isle of Man, an Invention for “**IMPROVEMENTS IN BEDS OR BASES FOR ARTIFICIAL TEETH,**” upon the condition (amongst others) that I, the said Abraham Eskell, my executors or administrators by an instrument in writing under my, or their, or one of their hands and seals, should particularly describe and ascertain the nature of the said Invention, and in 20 what manner the same was to be performed, and cause the same to be filed in the Great Seal Patent Office within six calendar months next and immediately after the date of the said Letters Patent.

**NOW KNOW YE,** that I, the said Abraham Eskell, do hereby declare the nature of the said Invention, and in what manner the same is to be 25 performed, to be particularly described and ascertained in and by the following statement thereof, that is to say:—

This Invention has for its object improvements in beds or bases for artificial teeth. For this purpose the upper portion of the bed to which the teeth are attached is formed of metal as has heretofore been done, but in place of the 30 under side of the metal bed being shaped so as exactly to fit the gums, the under side of the bed is made hollow to receive a filling piece of gutta percha, vulcanite, amber, tortoiseshell, ivory, or any substance capable of being readily moulded to the form of the gums. The under side of this filling piece is moulded in any suitable manner to the shape of the gums, and the filling 35 piece is fixed by small pins or otherwise in the hollow of the metal bed, so that it can readily be removed therefrom. By this means, when any change takes place in the form of the mouth, the first filling piece may be removed,



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and a fresh one formed to the shape of the gums inserted in the hollow of the bed, so that a fresh set of teeth would not be required.

And in order that my Invention may be most fully understood, and readily carried into effect, I will proceed to describe the Drawings hereunto  
5 annexed.

DESCRIPTION OF THE DRAWINGS.

Figure 1 is a front view, Figure 2 a section, and Figure 3 an under side view of a set of teeth mounted on a bed or base constructed as above described.  $\alpha$  is the upper part of the bed or base, which is formed of metal or other  
10 material. To this part the teeth are attached in any suitable manner. The under side of the piece  $\alpha$  is made hollow, as shown, to receive a filling piece  $b$  of gutta percha combined with silica, vulcanite, amber, tortoiseshell, ivory, or any substance capable of being readily formed to the shape of the gums. This filling piece is, by preference, fixed to the piece  $\alpha$  by means of small pins  
15 passing through the filling piece and through the part  $\alpha$ . A plan of the filling piece is shewn separately at Figure 4. When the filling piece is composed of vulcanite, its under side is made to the shape of the gums by taking a cast of the gums in wax, which is afterwards reversed in plaster, from which model a mould is made, in which prepared caoutchouc is submitted to heat,  
20 as when making beds or bases for artificial teeth from vulcanite. When the filling piece is composed of gutta percha, its under side is formed to the shape of the mouth by softening the gutta percha (which has already been moulded to the shape of the under side of the metal part  $\alpha$ ) in hot water, then placing the gutta percha so softened into the hollow of the under side of the part  $\alpha$ ,  
25 and pressing it whilst in the hollow of the part  $\alpha$  on to the gums, by which its under side will be moulded to the shape of the gums. When the gutta percha filling piece is cold, any portions of the gutta percha which project beyond the part  $\alpha$  are trimmed off, and the filling piece is fixed in its place by pins or otherwise. By thus forming the beds or bases for artificial teeth with  
30 filling pieces, when any change takes place in the form of the gums, the first filling piece may be removed, and a fresh one inserted in the hollow of the bed, so that a fresh set of teeth will not be required, and if the new filling piece is composed of gutta percha, it may readily be formed to the shape of the gums, in the manner above described, by the person wearing the teeth.

35 When a complete set of teeth is not required, as, for instance, when artificial back teeth only are required, the front natural teeth being perfect, as shewn at Figure 5, those portions only of the part  $\alpha$  of the bed or base which has teeth fixed to them, are formed to receive filling pieces. Figure 6 is a plan

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*Eskell's Improvements in Beds or Bases for Artificial Teeth.*

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view of such bed or base. *a, a,* are the parts of the bed or base which have teeth connected to them (the teeth not being shewn in the Drawing). These parts are made hollow to receive filling pieces, as above described, each part having a separate filling piece, which is fixed in its place by pins or otherwise.

5

In witness whereof, I, the said Abraham Eskell, have hereunto set my hand and seal this Seventeenth day of January, in the year of our Lord One thousand eight hundred and sixty-one.

ABRAHAM ESKELL. (L.S.)

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LONDON:

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Printers to the Queen's most Excellent Majesty. 1861.



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FIG. 1.

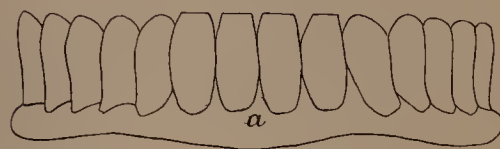


FIG. 2.



FIG. 5.

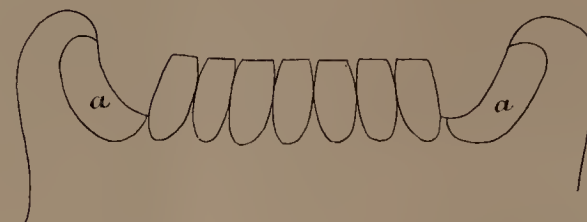


FIG. 3.

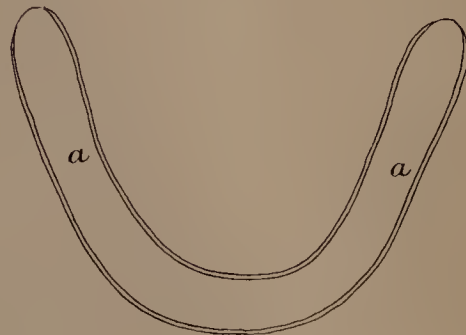
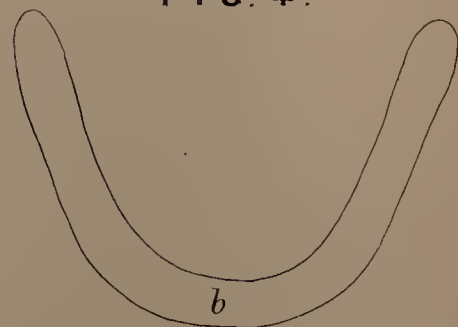


FIG. 6.



FIG. 4.



*The filed drawing is partly colored.*

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